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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/600,617	06/23/2003	Kinya Aota	503.35255VX6	6836
20457 7590 08/12/2008 ANTONELLI, TERRY, STOUT & KRAUS, LLP 1300 NORTH SEVENTEENTH STREET			EXAMINER	
			CANFIELD, ROBERT	
SUITE 1800 ARLINGTON, VA 22209-3873			ART UNIT	PAPER NUMBER
			3600	
			MAIL DATE	DELIVERY MODE
			08/12/2008	PAPER

## Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)					
	10/600,617	AOTA ET AL.					
Office Action Summary	Examiner	Art Unit					
	ROBERT J. CANFIELD	3600					
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the o	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1)⊠ Responsive to communication(s) filed on <u>20 Ju</u>	une 2007.						
	action is non-final.						
<i>;</i> —	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4)⊠ Claim(s) <u>5,6,8,10,11 and 15-24</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6) Claim(s) <u>5,6,8,10,11 and 15-24</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/o	· · · · · · · · · · · · · · · · · · ·						
Application Papers							
9)☐ The specification is objected to by the Examiner.							
10)⊠ The drawing(s) filed on <u>23 June 2003</u> is/are: a)□ accepted or b)⊠ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No. <u>08820231</u> .							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)							
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)							
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  Paper No(s)/Mail Date  Notice of Informal Patent Application							
Paper No(s)/Mail Date 6) Other:							

Application/Control Number: 10/600,617

Art Unit: 3600

1. This Office action is in response to the amendment filed 06/20/07. Claims 5, 6, 8, 10, 11 and 15-24 are pending. Claims 1-4, 7, 9, and 12-14 have been canceled.

Page 2

2. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, an embodiment having both recessed portions surfaces positioned in a range, in the horizontal direction, of thickness of the third plate AND the raised portions must be shown or the feature(s) canceled from the claim(s). No new matter should be entered. The only current figure which shows the raised portions is figure 7 which is described as a variation of the embodiment of figure 5 where there is virtually no vertical plate below the corners. The description clearly states that the raised portions 37a, 38s can also be applied to the embodiments of figures 1, 3, and 5 and to subsequent embodiments but the figures fail to show the combination of recessed portions surfaces positioned in a range, in the horizontal direction, of thickness of the third plate (shown in figure 3) and the raised portions (shown in figure 7).

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate

Application/Control Number: 10/600,617 Page 3

Art Unit: 3600

changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

- 3. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 4. Claims 5, 6, 8, 10, 11 and 15-24 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Each of the independent claims recites that the raised portions are protruded from the respective plates toward the side of the rotary tool where the rotary tool is not an element of the claims rendering the claims indefinite. The frame members are being claimed alone not in combination with a rotary tool and as such should not rely upon the rotary tool to define an element or direction.

Application/Control Number: 10/600,617 Page 4

Art Unit: 3600

5. Claims 5, 6, 8, 10, 11 and 15-24 would be allowable if rewritten or amended to

overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office

action.

6. Applicant's amendment necessitated the new ground(s) of rejection presented in

this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP

§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37

CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE

MONTHS from the mailing date of this action. In the event a first reply is filed within

TWO MONTHS of the mailing date of this final action and the advisory action is not

mailed until after the end of the THREE-MONTH shortened statutory period, then the

shortened statutory period will expire on the date the advisory action is mailed, and any

extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

the advisory action. In no event, however, will the statutory period for reply expire later

than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication should be directed to ROBERT J.

CANFIELD at telephone number (571)272-6840.

Robert J Canfield SPE

Art Unit 3635

/Robert J Canfield/

Supervisory Patent Examiner, Art Unit 3635